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Instructions for:  
*Model Six*  
by Henry Kloss

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## Introduction

**T**hank you for purchasing *Model Six* loudspeakers by Henry Kloss. More than 30 years ago, Henry Kloss designed the now-legendary KLH® *Model Six*, the first speaker system to exploit the potential of two-way design to provide extraordinary performance at a moderate cost. A decade later, he took the two-way concept still further with The Advent® Loudspeaker, one of the best-selling speaker models of all time.

Today Henry Kloss has come full circle to yet again exploit the cost/performance advantages of a properly conceived two-way loudspeaker. The result is Cambridge SoundWorks' *Model Six* loudspeakers, a basic two-way system named in honor of his first ground-breaking two-way system.

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## Unpacking The System

1. Upon unpacking your *Model Six* loudspeakers please examine them carefully for any signs of shipping damage. If there is evidence of shipping damage, do not discard the shipping carton, do not install or use the *Model Six* loudspeakers, and contact the store where you purchased the system or call your Cambridge SoundWorks Audio/Video Consultant immediately at 1-877-YES-HIFI. Your Audio/Video Consultant will tell you how to proceed and will help minimize any inconvenience.
2. Check to make sure the box includes eight rubber feet. Simply peel the feet off their backing, and place them near the corners on the bottom of each speaker.
3. We suggest that you keep the shipping carton and packing materials in case you later move, or have to ship your speakers.



Model Six Speakers (2)



Rubber feet (2 strips of 4)

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## About Amplifier Power

The amount of amplifier or receiver power needed to drive the *Model Six* loudspeakers satisfactorily varies significantly with such factors as the size of the listening room, its acoustics and furnishings, the type of music you like to listen to, and most importantly, how loud you like to play it. Power requirements can range from 20 to 150 watts per channel.

The *Model Six* loudspeakers can be used safely to play music with the most powerful amplifiers and receivers designed for home listening. However, take reasonable care to prevent strong non-musical transients. Keep the volume turned down when connecting or disconnecting components, raising or lowering your turntable's tonearm, and so on. This will help protect your ears as well as the speakers.

If at a given volume level the sound is consistently "grainy" or "gritty," you may be overdriving your amplifier or receiver. Back off on the volume control until the symptoms disappear. If that is not loud enough for you, you may need a more powerful amplifier or receiver for satisfactory results. Call your store or a Cambridge SoundWorks Audio/Video Consultant, who will advise you on how much power would be appropriate for your particular circumstances.

## Cleaning The Cabinets

If more than dusting is needed, the finish on your *Model Six* loudspeakers can be cleaned with a window or vinyl cleaning product. Avoid spraying the cleaner directly on the speaker grilles to prevent damage to them or the speaker.

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## Optimizing Your System

We encourage you to experiment with different locations for your *Model Six* loudspeakers within your listening room. Of course, if the system sounds satisfactory from the moment you connect it and first turn it on, you may wish to go no further. But if you have any doubts or wish to see if an improvement can be made, we suggest you experiment with placement using these guidelines.

1. Let your ears be your guide, and trust them. When the speakers sound right to you, you've found the best placement.
2. A relatively small change in placement can have a relatively large effect on the sound. For example, low bass increases as you move the speakers closer to intersecting room surfaces. The sound

appears brighter with the speakers close to the listening area than with them across the room. The fullness of the sound, a function of mid-bass rather than low bass, is greater with the speakers against a wall than with them out in the room.

This is not to imply that "more is better," whether it be low-bass, brightness or fullness. The point is that a change can be effected simply by moving one or both speakers.

3. Program material varies *greatly*, so be sure to listen to a variety of recordings. This will prevent your being misled by the particular characteristics of a particular recording.
4. *Model Six's* high-frequency output has been chosen: a) to take full advantage of the very

best program material, and b) to accommodate the scattering and reflecting of high-frequencies by room surfaces when the units are placed across the room from the listening area. If you find the sound too bright on older, noisy recordings and/or with the speakers placed close to the listeners, adjust your amplifier or receiver's treble control.

If it is necessary to place the speakers close to the listening area, try placing the units at an angle so that listeners aren't directly on axis. In a small room, you might try aiming the speakers away from the listeners altogether into the corners of the room to scatter the highs for a more natural, spacious sound.

5. The subjective "fullness" of the sound is not so much a function of the low bass as it is of the mid-bass. Similarly, the subjective "openness" of the sound is not so much a function of the high treble as it is of the lower midrange. Both of these critical ranges are affected by speaker placement.

The mid-bass and mid-range balance of *Model Six* loudspeakers, which are somewhat subjective in the first place, will usually be appropriate with the speakers against a wall. If you have them out from the wall and the sound is subjectively too "thin" (particularly on vocal recordings), move them back against a wall. If they are against the wall and sound to "heavy" or "boomy," particularly on male voices, try them out from the wall.

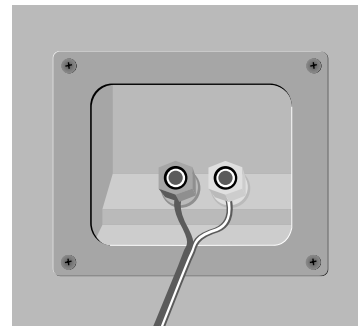
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6. The *Model Six*'s woofer can reproduce low bass, such as bass drum, organ pedals, and the lowest notes of string basses and synthesizers. The strength of these sounds, some of which are more felt than heard, is affected by the position of the speakers. Bass output becomes stronger when the speakers are placed close to a wall. Bass output is even stronger when the speakers are placed near the intersection of two planes in the room (e.g. a corner where two walls meet). Bass output becomes stronger yet when the speakers are placed near the intersection of *three* planes in a room (e.g. on the floor in a corner). In fact, bass output often becomes *too* strong when placed in a corner on the floor or near the ceiling. Please note that not all recordings have true low bass on them, so be sure to make judgements on recordings which do.
7. Call the store where you purchased the system or Cambridge SoundWorks if you're not happy with what you hear and are having trouble improving it. Your store or a Cambridge SoundWorks Audio/Video Consultant can be of great assistance making suggestions for improvements, troubleshooting your entire stereo system if necessary.

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## Connecting The System

1. We recommend 18 gauge wire (or regular electrical “zip” cord) to connect your *Model Six* loudspeakers to your amplifier or receiver. For runs of more than 50 feet, we recommend the next size larger wire, 16 gauge or heavier wire.
2. Strip about half an inch of insulation off the ends of each speaker wire to expose the two conductors. Twist the wire strands tightly on each conductor.
3. The stripped ends of the speaker cable can be inserted directly into the holes on the side of the speaker's binding post. Unscrew the black or red knob and insert the stripped end of the cable into the opening in the side of the binding post, then tighten the knob again. Be sure that no individual strands of wire short across terminal pairs on the speaker units or on your amplifier or receiver.
4. *It's important that you connect both speakers identically.* Your receiver/amplifier and your speaker terminals are color-coded. Connect the amplifier's red terminal to the speaker's red terminal, and the black terminal to the speaker's black terminal. Look for the ribbed insulation on one lead of the wire – or for different colored wire strands after you strip off the insulation – as a means of telling the two leads apart.

While reversing the connections on one unit will do no damage, the speakers will be “out-of-phase” which can diminish the stereo effect and the speakers' low bass output.



*Insert the wire marked with a stripe or molding into the red terminal, and insert the unmarked wire into the black terminal.*

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## 10-Year Limited Warranty

To the original purchaser, Cambridge SoundWorks, Inc. will warrant the *Model Six* loudspeakers to be free of defects in material and workmanship for a period of ten (10) years from date of purchase. With respect to defects, Cambridge SoundWorks will, at its option, replace the product or repair the defect in the product with no charge to the original purchaser for parts or labor.

This warranty does not extend to any defect, malfunction or failure caused by misuse, abuse, accident, faulty hookup, defective associated equipment or use of the speaker with equipment for which it is not intended.

This warranty is valid only when the speaker is returned to an authorized Cambridge SoundWorks Service Station or directly to Cambridge SoundWorks at the address to the right, freight prepaid, together with a copy of the original sales slip to establish warranty status. If you have any questions regarding the location of an Authorized Service Stations in your area, please contact Cambridge SoundWorks.

This is the sole and express warranty. This warranty is in lieu of all other warranties, expressed or implied, of merchantability, fitness for purpose or otherwise. In no event shall Cambridge SoundWorks be liable for incidental or consequential damages or have any liability with respect to defects other than the obligations set forth above.

To ensure warranty coverage it is incumbent upon the original purchaser to inform Cambridge SoundWorks or any of its Authorized Service Stations of the defect within the warranty period. The only acceptable method of establishing warranty status is a copy of the original proof of purchase indicating customer's name and purchase date.

For warranty information contact:

Cambridge SoundWorks, Inc.  
311 Needham St.  
Newton, MA 02464  
1-877-YES-HIFI  
(1-877-937-4434)  
[www.cambridgesoundworks.com](http://www.cambridgesoundworks.com)  
email:  
[info@cambridgesoundworks.com](mailto:info@cambridgesoundworks.com)

## Difficulty?

If you suspect a problem with your *Model Six* loudspeakers, contact the store where you purchased them. If a problem is confirmed, you will need to return the speakers to that store. If you purchased the speaker through our mail order catalog service, call a Cambridge SoundWorks Audio/Video Consultant at 1-877-YES-HIFI, who will help you track down the problem, which could be in some other component in your system. If together you agree that there is something wrong, we will supply you with a Return Authorization Number. Please do not return the *Model Six* loudspeakers, or any of their parts, to the factory without prior authorization.



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## About The *Model Six*

More than 30 years ago, Henry Kloss designed the now-legendary KLH® *Model Six*, the first speaker system to exploit the potential of two-way design to provide extraordinary performance at a moderate cost. A decade later, he took the two-way concept still further with The Advent® Loud-speaker, one of the best-selling speaker models of all time.

Today Henry Kloss has come full circle to yet again exploit the cost/performance advantages of a properly conceived two-way loudspeaker. The result is Cambridge SoundWorks' *Model Six*, a basic two-way system named in honor of his first ground-breaking two-way system.

### Not An "Extension Speaker"

Henry is adamant that *Model Six* not be considered just as an "extension speaker," or a surround speaker, as often happens today with moderate-cost models. "*Model Six* is a serious *main* speaker with sufficient frequency range and power-handling to satisfy serious music listeners. I've worked as hard on this speaker as any I've ever designed, including those costing a lot more." The result, he points out,

is that *Model Six* speakers, when combined with a good AM/FM receiver and CD player comprise a complete music system for \$500-\$600 that seriously outperforms typical pre-packaged "shelf" or "rack" systems.



### Costly Components

At the heart of *Model Six* are its drivers, a 1 <sup>3</sup>/<sub>4</sub>" cone tweeter with center <sup>5</sup>/<sub>8</sub>" dome, and a newly-designed 8" acoustic suspension woofer. While classic in their simplicity, these drivers and their configuration differ significantly

from other two-way, moderate-cost systems.

First of all, *Model Six*'s crossover frequency is 2,000 Hz, much lower than many other two-way designs. This lower crossover makes it possible to ensure a smooth,

uncolored upper midrange with wide dispersion. It would be impractical to use this low a crossover frequency with conventional tweeters that can't handle sufficient power in the 2,000 Hz region. But *Model Six*'s tweeter (the same as used in our *Ensemble*

systems) uses a compliant butyl rubber suspension that allows the "long-throws" necessary to reproduce music in this range.

The 8" woofer cone is larger than those found in other speakers of *Model Six*'s size and price, enabling it to move substantial amounts of air at low frequencies. The woofer's magnet and voice coil are also larger and costlier than usual. The result is that *Model Six*'s bass is both more accurate and more extended than similar systems.

Thanks to proper design and materials, no individual frequencies predominate, or are missing. But as with all Henry Kloss designs, that is only the beginning. He then goes on to "voice" the system – painstakingly fine-tuning octave-to-octave balance. The care with which this process has been carried out with *Model Six*, more than any other single factor, accounts for Henry's statement that he worked as hard on this speaker as any other he's ever designed.

### Cabinet Design

"Listeners who don't have a lot to spend need not be shortchanged by a product's appearance any more than by its performance" says

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Henry Kloss. As a result, he has devoted considerable time and effort to making *Model Six* as appealing visually as it is sonically.

Especially convincing simulated wood-grain finishes were chosen – in oak, teak and black ash. A subtly rounded-in “bullnose” molding frames a black grille fabric. The goal was for *Model Six* to look, as well as sound, more expensive than it is.

**Long-Term Satisfaction**

With response extending down to the lowest octave and out beyond audibility, excellent power handling and a smooth, “open” sound, *Model Six* will provide unparalleled satisfaction for its modest cost. Henry says “*Model Six* is the least expensive speaker system that will satisfy you for the rest of your life.”

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